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2 Highly vectorized algorithm for transient simulation of space reactor systems
B. Nassersharif, J. S. Peery, M. D. DeHart
November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88**
Publisher: IEEE Computer Society Press
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> Current interest in the application of nuclear reactor driven power systems to space missions has generated a need for an accurate systems model which is capable of handling the nonlinear transient simulation of such systems [1],[2]. A project to develop a code specifically designed to model and analyze space reactor systems is currently ongoing at Texas A&M. This code, named CENTAR (Code for Extended Nonlinear Transient Analysis of Extraterrestrial Reactors [3],[4]), is written especia ...

3 The role of computer systems in the nuclear power debate
Kevin W. Bowyer
April 1980 **ACM SIGCAS Computers and Society**, Volume 10 Issue 3-4
Publisher: ACM Press
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> One of the primary reasons for the current "decline" of nuclear power is that reactors have not operated reliably. This unreliability has raised questions of both safety and economics. Computer systems have been a part of this failure of technology. If nuclear power is to be revived as an energy option for our country, both the quantity and quality of computer applications must increase.

4 GASP IV simulation of nuclear waste
Jeffery Lee Turek, Elden L. Deporter, Harold A. Kurstedt, Charles E. Rasbach, Steven K. Funk
January 1981 **Proceedings of the 13th conference on Winter simulation - Volume 1**

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4 GASP IV simulation of nuclear waste
Jeffery Lee Turek, Elden L. Deporter, Harold A. Kurstedt, Charles E. Rasbach, Steven K. Funk
January 1981 **Proceedings of the 13th conference on Winter simulation - Volume 1**

WSC '81
Publisher: IEEE Press
Full text available: pdf(521.33 KB)   Additional Information: full citation, abstract, citings, index terms

> The current governmental research and development program for the disposition of high-level nuclear wastes from both defense and commercial sources is modelled using a discrete GASP IV based simulation. The simulation utilizes, as input, actual and current data from various DOE management information systems. A sampling of disposition data contained within these systems are milestones, storage facility capacities, and predecessor and successor relations. Decision variables include facility ...

5 Nuclear power plant diagnostics in APL
Alexander O. Skomorokhov
July 1991 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL '91 APL '91**, Volume 21 Issue 4
Publisher: ACM Press

Full text available: pdf(903.20 KB)   Additional Information: full citation, abstract, references, citings, index terms

> We are interested in the development of Nuclear Power Plant (NPP) diagnostic systems and other complex systems of data processing. There are some questions on the subject:How to build these systems easily?How to build them fast?How to build them at a low price?And how to build them to be user friendly?Today, from our point of view, in the area of Nuclear Power Plant diagnostics, there is only one answer to these questions: We must use APL.

6 Computer based systems in boiling water reactors
J. N. Shukla, J. A. Iubelt
April 1980 **ACM SIGCAS Computers and Society**, Volume 10 Issue 3-4
Publisher: ACM Press
Full text available: pdf(474.71 KB)   Additional Information: full citation, abstract

> This paper describes the application of computers to the General Electric Company's Boilling Water Reactor (BWR) type nuclear power plants. In the GE BWR plants, computers are used for Real Time Process Monitoring, Nuclear Steam Supply Systemn Performance and Core Limit Evaluation, Balance of Plant Performance Evaluation, Historical Recording, and Control Rod Pattern Enforcement. These functions are performed by different systems and subsystems each consisting of one or more computers. This pape ...

7 A combined simulation model of the nuclear fuel cycle
E. L. DePorter, Harold A. Kurstedt, Joel A. Nachlas
December 1977 **Proceedings of the 9th conference on Winter simulation - Volume 1 WSC '77**
Publisher: Winter Simulation Conference
Full text available: pdf(327.18 KB)   Additional Information: full citation, abstract, references, index terms

> Strategies for dealing effectively with the complex nuclear fuel cycle are needed to assure the availability of the required nuclear energy portion of U.S. energy supplies. The vertical integration approach to assuring uranium fuel supplies is achieved through control or ownership of fuel cycle stages. Global system analysis is facilitated by identifying crucial control points in the fuel cycle. A GASP IV simulation model of the production and inventories of the sequentially prod ...

8 PACS: a parallel microprocessor array for scientific calculations
Tsutomu Hoshino, Toshio Kawai, Tomonori Shirakawa, Junchi Higashino, Akira Yamaoka, Hachidai Ito, Takashi Sato, Kazuo Sawada
August 1983 **ACM Transactions on Computer Systems (TOCS)**, Volume 1 Issue 3

Publisher: ACM Press

Full text available: pdf(1.95 MB)   Additional Information: full citation, references, citings, index terms

Keywords: MIMD, array processors, distributed systems, highly parallel processors, multimicroprocessors, multiprocessing, multiprocessors, nearest neighbor communication, parallel algorithms, parallel language, parallel processors, performance measurement, processor architecture, scientific calculation, supercomputer, synchronization

9 NUFACTS: A tool for the analysis of nuclear development policies

Mark B. Triplett, Theodore L. Willke, John D. Waddell

January 1977 **Proceedings of the 9th conference on Winter simulation - Volume 2 WSC '77**

Publisher: Winter Simulation Conference

Full text available: pdf(582.16 KB)   Additional Information: full citation, abstract, references, index terms

NUFACTS, the Nuclear Fuel Cycle Activity Simulator, is a combined continuous/discrete simulation of the nuclear power economy. This model has been useful in the evaluation of nuclear development policies as it projects the economic and resource impacts attributable to a given policy. A recent application of NUFACTS has involved the economic evaluation of plutonium recycle options in light-water reactors. Based upon the GASP IV simulation language, NUFACTS provides a highly flexib ...

10 The applied mathematics laboratory of the David W. Taylor Model Basin

Morris Richstone

September 1961 **Communications of the ACM**, Volume 4 Issue 9

Publisher: ACM Press

Full text available: pdf(1.47 MB)   Additional Information: full citation, references, index terms

11 Model reliability and software quality assurance in simulation of nuclear fuel waste management systems

Tuncer I. Ören, Maurice S. Elzas, Grant Sheng

October 1985 **ACM SIGSIM Simulation Digest**, Volume 16 Issue 4

Publisher: ACM Press

Full text available: pdf(1.16 MB)   Additional Information: full citation, abstract, references, citings

As is the case with all scientific simulation studies, computerized simulation of nuclear fuel waste management systems can introduce and hide various types of errors. Frameworks to clarify issues of model reliability and software quality assurance are offered. Potential problems with reference to the main areas of concern for reliability and quality are discussed; e.g. experimental issues, decomposition, scope, fidelity, verification, requirements, testing, correctness, robustness are treated w ...

12 Genetic algorithms: Application of genetic algorithm to optimize burnable poison placement in pressurized water reactors

Serkan Yilmaz, Kostadin Ivanov, Samuel Levine

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press

Full text available: pdf(1.47 MB)   Additional Information: full citation, abstract, references, index terms

An efficient and a practical genetic algorithm tool was developed and applied successfully to Burnable Poisons (BPs) placement optimization problem in the reference Three Mile

Island-1 (TMI-1) core. Core BP optimization problem means developing a BP loading map for a given core loading configuration that minimizes the total Gadolinium (Gd) amount in the core without violating any design constraints. The number of UO_2/Gd_2O_3 pins and Gd_2O_3 con ...

Keywords: burnable poison, decision variables, gadolinium, genetic algorithm, nuclear, optimization, reactor

13 Homeland security/emergency response: simulation for response: Training first responders to nuclear facilities using 3-D visualization technology
Robert L. Sanders, Joseph E. Lake
December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**
Publisher: Winter Simulation Conference
Full text available: pdf(509.67 KB)   Additional Information: full citation, abstract, references

The development of an advanced visualization and simulation tool for first responder exercises and education is presented. This tool exploits cutting edge computer graphics, physics-based effects modeling, virtual reality, and gaming technologies to establish a system that can eventually be used for the administrative planning and training of first responders in homeland security, homeland defense, and combating terrorism communities.

14 University Consortium for Industrial Numerical Analysis (UCINA)
S. McKee
December 1981 **ACM SIGNUM Newsletter**, Volume 16 Issue 4
Publisher: ACM Press
Full text available: pdf(420.07 KB)   Additional Information: full citation, abstract, references

The University Consortium for Industrial Numerical Analysis (UCINA) was formed on the 1st October 1979 with Dr. Sean McKee as the Project Coordinator. UCINA represents a collaborative effort by numerical analysts and interested applied mathematicians of the Universities of Bath, Brunel, Oxford, Reading and Imperial College, with strong support from the Division of Numerical Analysis and Computing Sciences at the National Physical Laboratory, to help with the solution of practical problems in ind ...

15 Abstracts— additional nuclear reactor codes
Virgina Nather, Ward Sangren
January 1960 **Communications of the ACM**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(940.91 KB)   Additional Information: full citation

16 Vector and parallel processing of the nuclear reactor transient analysis code RELAP5
M. Ishiguro, M. Makino, N. Shinozawa
November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88**
Publisher: IEEE Computer Society Press
Full text available: pdf(720.07 KB)   Additional Information: full citation, abstract, references, index terms

An experiment of vector processing and multi-tasking of nuclear reactor transient analysis code RELAP5 has been made at Japan Atomic Energy Research Institute. Vector processing and multi-tasking of the RELAP5 were achieved by using the independency of the spatial meshes. The vectorization ratio is 83% The performance ratio in the vector mode to that

in the scalar mode is about 3 on the FACOM VP-100. For multi-tasking, the spatial meshes
are halfed and each group of meshes is processed on d ...

17 Manufacturing applications: production management IV: Database-intensive process
simulation at the Y-12 national security complex
Reid Kress, Karen Bills, Jack Dixon, Richard Rinehart
December 2006 **Proceedings of the 37th conference on Winter simulation WSC '06**
Publisher: Winter Simulation Conference
Full text available: pdf(588.52 KB)   Additional Information: full citation, abstract, references

The NNSA's Y-12 National Security Complex is a manufacturing facility operated by BWXT
Y-12. Y-12's missions include ensuring the US' nuclear weapons deterrent, storing nuclear
materials, and fueling US naval reactors. As a consequence of these missions, Y-12 makes
dozens of products, having hundreds of parts, each with many different process steps
associated with manufacturing components, building sub-assemblies, or assembling final
products. Y-12 also disassembles weapon components to support ...

18 An integrated energy simulation model of the Federal Republic of Germany as a
decision aid for analyzing and planning the energy system
Hans-Paul Schwefel, Kurt Schmitz
December 1977 **Proceedings of the 9th conference on Winter simulation - Volume 1
WSC '77**
Publisher: Winter Simulation Conference
Full text available: pdf(638.97 KB)   Additional Information: full citation, abstract, references, citings, index
terms

As a decision aid for planning the national energy system the Programme Group of
Systems Analysis and Technological Development (STE) of the Nuclear Research Centre
(KFA) at Jülich (Federal Republic of Germany) has developed a simulation model which
integrates macroeconomic, energy demand and supply as well as environmental modules.
The structures of these four parts of the model, which are interlinked with each other, are
explained in detail and the capabilities of that sys ...

19 Software safety: why, what, and how
Nancy G. Leveson
June 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 2
Publisher: ACM Press
Full text available: pdf(4.18 MB)   Additional Information: full citation, abstract, references, citings, index
terms, review

Software safety issues become important when computers are used to control real-time,
safety-critical processes. This survey attempts to explain why there is a problem, what the
problem is, and what is known about how to solve it. Since this is a relatively new
software research area, emphasis is placed on delineating the outstanding issues and
research topics.

20 A systematic approach to the development and validation of critical software for
nuclear power plants
C. V. Ramamoorthy, F. B. Bastani, J. M. Favaro, Y. R. Mok, C. W. Nam, K. Suzuki
September 1979 **Proceedings of the 4th international conference on Software
engineering ICSE '79**
Publisher: IEEE Press
Full text available: pdf(911.14 KB)   Additional Information: full citation, abstract, references, index terms

The power industry is becoming increasingly interested in the use of digital computers
within nuclear plant protection systems in order to satisfy increased safety requirements,
provide greater operating flexibility, minimize spurious forced outages, and (in conjunction

with multiplexing) to meet separation requirements. However, the development and licensing of digital safety systems has been hindered to date by the difficulty of validating the software. A methodology is propose ...

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☐ 1. **Threat Is Seen at Nuclear Reactors; Stored spent fuel puts sites at risk of terrorist attack, scientists industry disagree.; [HOME EDITION]**
Ralph Vartabedian. **Los Angeles Times.** Los Angeles, Calif.: Apr 7, 2005. p. A.14

   📄 Full text   📄 Abstract

☐ 2. **CATTENOM-1 SUSPECTED TO SUFFER FROM VIBRATION-INDUCED FRETTING**
Ann MacLachlan, Paris. **Nucleonics Week.** New York: Feb 21, 2002. Vol. 43, Iss. 8; p. 4

   📄 Full text   📄 Abstract

☐ 3. **NRC MONITORS NUCLEAR PLANT'S CLOSING BUT SOME FEAR SPEED OF DECOMMISSIONING S SAFETY FOR ECONOMICS; [NORTH SPORTS FINAL Edition]**
Sara Gay Dammann. Special to the Tribune.. **Chicago Tribune.** Chicago, Ill.: Dec 23, 1997. p. 16

   📄 Full text   📄 Abstract

☐ 4. **Steam radiolysis by alpha-particle irradiation**
by *Li, Chaoyang*, Ph.D., **University of California, Berkeley**, 1997, 123 pages; AAT 9827013

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New York Times (Late Edition (East Coast)). New York, N.Y.: Jun 9, 1995. p. B.3

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☐ 6. **Zirconium: Covering for fuel rods**
New York Times (Late Edition (East Coast)). New York, N.Y.: Jun 9, 1995. p. B3

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☐ 7. **PERSPECTIVE: NORTH KOREA Despite conciliatory government stance, critical issues loom; [MOF**
JAMES STERNGOLD:The New York Times. **Orange County Register.** Santa Ana, Calif.: Aug 3, 1994. p.

                                                       📄 Abstract

☐ 8. **PERSPECTIVE ON NORTH KOREA The Nuclear Card Is Back in Play Kim Jong Il's survival depends hopes wane for winning compliance with carrots instead of sticks.; [Home Edition]**
JONATHAN D. POLLACK. **Los Angeles Times (pre-1997 Fulltext).** Los Angeles, Calif.: Jul 14, 1994. p. 7

   📄 Full text   📄 Abstract

☐ 9. **Liquid bonded light water reactor fuel: Enhanced light water reactor safety and performance**
by *Wright, Richard Frederick*, Ph.D., **University of Florida**, 1994, 206 pages; AAT 9607148

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10. **Nuclear fuel rod leak detection system**
    by *Marjanovic, Iztok*, M.S., **San Jose State University**, 1989, 165 pages; AAT 1339631

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11. **Safety of U.S. Reactors Challenged in Studies Dept. of Energy Internal Reports Repeatedly Questio**
    Own Systems, Procedures; [Home Edition]
    LEE DYE, LARRY B. STAMMER. **Los Angeles Times (pre-1997 Fulltext).** Los Angeles, Calif.: May 11, 1:

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DOCUMENT-IDENTIFIER: US 20060129362 A1

TITLE: Method for determining threshold value of a nuclear reactor operating
parameter, corresponding system, computer programme and support

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mahe; Patrice	PIOLENC		FR
Royere; Christian	Issy Les Moulineaux		FR

US-CL-CURRENT: 703/2

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☐ 2. Document ID: US 20030012326 A1

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PGPUB-DOCUMENT-NUMBER: 20030012326
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DOCUMENT-IDENTIFIER: US 20030012326 A1

TITLE: Method of inspecting an operation of sealed closure by welding the end of a
filling channel traversing the upper plug of a nuclear fuel rod

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mahe, Philippe	Montmiral		FR

US-CL-CURRENT: 376/248

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 3.   Document ID: US 6668034 B2

L1: Entry 3 of 3   File: USPT   Dec 23, 2003

US-PAT-NO: 6668034
DOCUMENT-IDENTIFIER: US 6668034 B2

TITLE: Method of inspecting an operation of sealed closure by welding the end of a filling channel traversing the upper plug of a nuclear fuel rod

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mahe; Philippe	Montmiral			FR

US-CL-CURRENT: 376/248; 219/121.64, 219/121.85, 376/258, 376/261, 376/451, 382/141, 382/152, 700/109

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CLADDINGS	3297
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DOCUMENT-IDENTIFIER: US 20060129362 A1

TITLE: Method for determining threshold value of a nuclear reactor operating
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PUBLICATION-DATE: June 15, 2006

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NAME	CITY	STATE	COUNTRY
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Royere; Christian	Issy Les Moulineaux		FR

US-CL-CURRENT: 703/2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 2. Document ID: US 5073336 A

L5: Entry 2 of 7   File: USPT   Dec 17, 1991

US-PAT-NO: 5073336
DOCUMENT-IDENTIFIER: US 5073336 A

TITLE: Corrosion resistant zirconium alloys containing copper, nickel and iron

DATE-ISSUED: December 17, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taylor; Dale F.	Schenectady	NY		

US-CL-CURRENT: 376/457; 376/414, 376/416, 376/417

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 3. Document ID: US 5026516 A

L5: Entry 3 of 7   File: USPT   Jun 25, 1991

US-PAT-NO: 5026516
DOCUMENT-IDENTIFIER: US 5026516 A

TITLE: Corrosion resistant cladding for nuclear fuel rods

DATE-ISSUED: June 25, 1991

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Taylor; Dale F.   Schenectady   NY

US-CL-CURRENT: 376/416; 376/414, 376/417, 376/457, 420/422, 976/DIG.53

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De

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☐ 4. Document ID: US 5024809 A

L5: Entry 4 of 7   File: USPT   Jun 18, 1991

US-PAT-NO: 5024809
DOCUMENT-IDENTIFIER: US 5024809 A

TITLE: Corrosion resistant composite claddings for nuclear fuel rods

DATE-ISSUED: June 18, 1991

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Taylor; Dale F.   Schenectady   NY

US-CL-CURRENT: 376/417; 376/362, 376/434, 376/457, 420/422, 976/DIG.53

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De

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☐ 5. Document ID: US 4990305 A

L5: Entry 5 of 7   File: USPT   Feb 5, 1991

US-PAT-NO: 4990305
DOCUMENT-IDENTIFIER: US 4990305 A

TITLE: Single peak radial texture zircaloy tubing

DATE-ISSUED: February 5, 1991

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY

Foster; John P.   Monroeville   PA
Cook; Charles S.   Murrysville   PA
Sabol; George P.   Export   PA

US-CL-CURRENT: 376/457; 72/370.22, 72/700

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 6.   Document ID: US 4986957 A

L5: Entry 6 of 7   File: USPT   Jan 22, 1991

US-PAT-NO: 4986957
DOCUMENT-IDENTIFIER: US 4986957 A

TITLE: Corrosion resistant zirconium alloys containing copper, nickel and iron

DATE-ISSUED: January 22, 1991

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Taylor; Dale F.   Schenectady   NY

US-CL-CURRENT: 376/417; 376/416, 376/421, 376/457, 420/422, 420/423

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sources | Attachments | Claims | KWIC | Draw De |

☐ 7.   Document ID: US 4643866 A

L5: Entry 7 of 7   File: USPT   Feb 17, 1987

US-PAT-NO: 4643866
DOCUMENT-IDENTIFIER: US 4643866 A

TITLE: Nuclear fuel pellet-cladding interaction test device and method modeling in-core reactor thermal conditions

DATE-ISSUED: February 17, 1987

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Thornton; Thomas A.   Lynchburg   VA
Pettus; William G.   Monroe   VA

US-CL-CURRENT: 376/245; 376/251, 376/253, 976/DIG.208

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

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